

KOSTORZ, S.

Graphical method of determining the approximate content of toluene in a benzene fraction. S. Kostorz, Priemysl Chem. 9, 311-3 (1953).—The approximate content of toluene in a C₆H₆ fraction can be detd. from a system of graphs prep'd. from results obtained by distn. of known amt's. of toluene ranging from 0 to 10% in 100 ml. of a mixt. of toluene and C₆H₆. With the Kraemer-Spilker distn. app., the boiling temp. corresponding to 80 ml. distillate is detd. and the corresponding amt. of toluene in the C₆H₆ fraction can be found from the graphs.

Gene A. Wozny

I 20222-66

ACC NR: AP6010331

SOURCE CODE: BU/0011/65/018/009/0375/0272

AUTHOR: Kostourkov, G.; Petrounov, B.

ORG: Research Institute of Epidemiology and Microbiology, Bulgarian Academy of Sciences

TITLE: Part played by small and medium-sized lymphocytes in the passive transfer of tuberculin hypersensitivity

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 9, 1965, 875-878

TOPIC TAGS: tuberculosis, allergic disease, cytology, antibody, cell physiology

ABSTRACT: Delayed hypersensitivity is a cell-conditioned allergic reaction which is independent of humoral antibodies and plasmic factors (T. Wesslen, Acta tub. Scand., 26, 1952, 33). The tissues and organs containing cells which are carriers of the allergic factor were established in the course of the last 20 years. On the basis of a variety of studies, certain authors (see, e.g., J. W. Uhr, M. Scharff, J. Exptl. Med., 112, 1960, 65) assume the lymphocytes to be the carriers of the hypersensitivity factor in the delayed type of allergic reactions. The object of the present work was to check the role of small and medium-sized lymphocytes, from an immunologically competent organ like the spleen, in the passive transfer of tuberculin hypersensitivity. Male guinea-pigs weighing between 350 and 400 grams served as test animals. The results of the investigations indicate that spleen lymphocytes from sensitized donors successfully transfer tuberculin hypersensitivity to homologous energetic recipients. These data coincide with

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Card 2/2 MJS

KOSTOURKOV,G.; BACHVAROV.R.

The effect of endogenous pyrogen on agglutinin-formation in rabbits. Dokl. Bolg.akad. nauk 16 no.7:749-752 '63

1. Submitted by Academician I. Emanuiloff.

*

KOSTOURKOV, G. [Kosturkov, G.]; BACHVAROV, R. [Bachvarov, R.]

The effect of endogenous pyrogen on agglutinin-formation
in rabbits. Doklady BAN 16 no.7:749-752 '63.

KOSTOUSHOV, A.I.; BRITSKO, K.M.; VOLODIN, Ye.I.; GRECHUKHIN, A.I.; DEGTYARENKO, N.S.; DOBROSKOK, A.N.; MARDANYAN, M.Ye.; NAYDENOV, I.A.; PROKOPOVICH, A.Ye.; TELYATNIKOV, L.P.; USPENSKIY, Ya.K.; KHLYNOV, V.N.; PERL'SHTEYN, Ye.A., nauchnyy red.; YEVSEVICHEV, V.I., red.; BUDOVA, L.G., tekhn.red.; NADEINSKAYA, A.A., tekhn.red.

[Machine-tool manufacture in Japan] Japonskoe stankostroenie.
Pod obshchei red. A.E.Prokopovicha i M.E.Mardaniana. Moskva, Tsentr.
biuro tekhn.informatsii, 1959. 461 p. (MIRA 13:9)

1. Moscow (Province) Oblastnoy sovet narodnogo khozyaystva.
(Japan--Machine tool industry)

KOSTOUSOV, Anatoliy Ivanovich

Technological development in the machine-tool and instrument
industries. Dost,nauki i tekhnika pered.op.v prom.i stroi. no.4:
72-106 '59. (MIRA 12:10)
(Machine-tool industry) (Instrument industry)

KOSTOUSOV, A.I.

BERG, A.I., glav. red.; TRAPEZNIKOV, V.A., glav. red.; BERKOVICH, D.M.,
zamgl. glav. red.; LERNER, A.Ya., doktor tekhn. nauk, prof.,
zamgl. glav. red.; AVEN, O.I., red.; AGEYKIN, D.I., red.; kand.
tekhn. nauk, dots., red.; AYZERMAN, M.A., red.; VENIKOV, V.A.,
doktor tekhn. nauk, prof., red.; VORONOV, A.A., doktor tekhn.
nauk, prof., red.; GAVRILOV, M.A., doktor tekhn. nauk, prof.,
red.; ZERNOV, D.V., red.; IL'IN, V.A., doktor tekhn. nauk,
prof., red.; KITOV, A.I., kand. tekhn. nauk, red.; KOGAN, B.YA.,
doktor tekhn. nauk, red.; KOSTOUSOV, A.I., red.; KRINITSKIY,
N.A., kand. fiz.-mat. nauk red.; LEVIN, G.A., prof. red.;
LOZINSKIY, N.G., doktor tekhn. nauk, red.; LUSSIYEVSKIY, V.I.,
red.; MAKSAREV, Yu.Ye., red.; MASLOV, A.A., dots., red.; POPKOV, A.A., red.;
RAKOVSKIY, M.Ye., red.; ROZENBERG, L.D., doktor tekhn. nauk,
prof., red.; SOTSKOV, B.S., red.; TIMOFEEV, P.V., red.;
USHAKOV, V.B., doktor tekhn. nauk, red.; FEL'DBAUM, A.A.,
doktor tekhn. nauk, prof., red.; FROLOV, V.S., red.;
KHARKEVICH, A.A., red.; KHRAMOV, A.V., kand. tekhn. nauk, red.;
TSYPKIN, Ya.Z., doktor tekhn. nauk, prof., red.; CHELYUSTKIN,
A.B., kand. tekhn. nauk, red.; SHREYDER, Yu.A., kand. fiz.-
mat. nauk, dots., red.; BOCHAROVA, M.D., kand. tekhn. nauk,
starshiy nauchnyy red.; DELONE, N.N., inzh., nauchnyy red.;
BARANOV, V.I., nauchnyy red.; PAVLOVA, T.I., tekhn. red.

(Continued on next card)

BERG, A.I.— (continued). Card 2.

[Industrial electronics and automation of production processes] Avtomatizatsiya proizvodstva i promyshlennaya elektronika. Glav. red. A.I.Berg i V.A.Trapeznikov. Moskva, Gos.nauchn. izd-vo "Sovetskaya Entsiklopediya." Vol.1. A - I. 1962. 524 p. (MIRA 15:10)

1. Chlen-korrespondent Akademii nauk SSSR (for Sotskov, Kharkovich, Zernov, Timofeyev, Popkov).
(Automatic control) (Electronic control)

KOSTOUSOV, A.I.; VASIL'YEV, V.S.; GRECHUKHIN, A.I.; DEGTYARENKO,
N.S.; PETROCHENKOV, A.G.; PROKOPOVICH, A.Ye.; TELESHOV,
A.P.; SHEVYAKOV, L.N.; GONCHAROVA, S.L., nauchn. red.;
BORUSHMOY, I.V., red.; LOGINOV, R.A., red.; MONAKHOVA,
N.F., red.; SHCHEGLOVA, I.B., red.; KOVAL'SKAYA, I.F.,
tekhn. red.

[Machine-tool industry in Japan according to materials
from the Machine-tool Exhibition of 1962 in Osaka] Stan-
kostroenie Iaponii; po materialam stankostroitel'noi
vystavki 1962 goda v g.Osaka. Moskva, 1963. 473 p.
(MIRA 16:12)

1. Moscow. TSentral'nyy institut nauchno-tekhnicheskoy
informatsii po avtomatizatsii i mashinostroyeniyu.
(Japan—Machine-tool industry)

BARANOV, Yu.I.; KOSTOUSHOV, N.L.

Controlling open-hearth furnace gates from the charging machine.
Stal' 23 no.9:793-799 S '63. (MIRA 16:10)

BARANOV, Yu.I.; KOSTOUSHOV, N.L.

Automatic dewatering of mazut. Stal' 23 no. 3:279 Mr '64.
(MIRA 17:5)

1. Severskiy metallurgicheskiy zavod.

BARANOV, Yu.I., inzh.; KOSTOUSHOV, N.L., inzh.; STEPANOV, V.I., inzh.

Remote-controlled fuel supply at a gas-generator station.
Mekh. i avt. proizv. 17 no.8:13 15 Ag '63. (MIRA 16:10)

BARANOV, Yu.I.; KOSTOUSHOV, N.L.

Automatic temperature control of reduction gear and engine bearings
of the main drive of rolling mills. Stal' 23 no.7:640 J1 '63.
(MIRA 16:9)

(Rolling mills—Electric driving)
(Automatic control)

BARANOV, Yu.I.; KOSTOUSOV, N.L.; MINYAYEV, V.A.; YEMEL'YANOV, V.P.

In rolling mills across the land. Metallurg 8 №.3:32-34 Mr.'63.
(MIRA 16:3)

1. Severskiy metallurgicheskiy zavod (for Baranov, Kostousov,
Minyayev). 2. Magnitogorskiy metallurgicheskiy kombinat (for
Yemel'yanov).
(Rolling mills—Equipment and supplies)

BARANOV, Yu.I.; KOSTOUSOV, N.P.; MINYAYEV, A.A.; SHIROKOV, S.P.

Magnetic device for handling billets. Metallurg 8 no.6:33
Je '63. (MIRA 16:7)

1. Severskiy metallurgicheskiy zavod.
(Rolling (Metalwork)) (Materials handling)

APAKHOV, I.A.; KALYAZINA, V.S.; PARYLIS, E.Ya.; KLYUKINA, E.P.; POSTNIKOVA,
A.V.; Prinimali uchastiye: BASHKIROVA, Ye.M.; NAZAROVA, A.K.;
KOSTOUSOVA, A.S.

Improving the quality of contact sulfuric acid. Khim. prom.
41 no.10:745-746 0 '65. (MIRA 18:11)

D'YAKOV, A.A.; KOSTOUSOVA, T.I.

Dependence of hydrogen overvoltage on aluminum on the state
of the aluminum surface and concentration of the acid.
Zhur.fiz.khim. 34 no.7:1610-1615 Jl '60.
(MIRA 13:7)

1. Ural'skiy gosudarstvennyy universitet im. A.M.Gor'kogo,
Sverdlovsk.
(Overvoltage) (Aluminum) (Hydrogen)

KOSTOV, Boris

Some Results from the Fluorescent Tube Illumination on Industrial Enterprises. Elektroenergia (Electric Power), #11-12:13; Nov-Dec 54

KOSTOV, B.

"Stroboscopic effect of the fluorescent lamp and the method for its reduction."
Vol. 5, no. 5/6, May/June 1954, p. 27. Elektroenergiia, Sofiya

SO: Eastern European Accessions List, Vol 3, no. 11, Nov. 1954, L. C.

KOSTOV, B.

"New Bulb-shaped fluorescent lamps."

p. 5 (Elektroenergiia, Vol. 8, no. 8, Aug. 1957, Sofiia, Bulgaria.)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 6
June 1958.

KOSTOV, B.

Transforming processes of electric power in the total electric power of Bulgaria
during 1953, 1954, and 1955.

p. 6 (ELEKTROENERGIIA) Vol. 8, no. 9, Sept. 1957,
Sofia, Bulgaria

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3,
March 1958

KOSTOV, B.

TECHNOLOGY

Periodical: IZVESTIIA. No. 5/6, 1958.

KOSTOV, B. Equalizing single-phase electric loads in three-phase systems.
p. 353.

Monthly List of East European Accession (EEAI), LC., Vol. 8, No. 2,
February 1959, Unclass.

KULELIEV, Kr.; KOSTOV, B.

Geochemical investigations in the Radnevo gypsiferous region.
II. Origin of lime concretion. Geodischnik Min. geol inst
7 no.1:221-239 '60/'61.

KULELIEV, Kr.; KOSTOV, B.

Geochemical studies in the Radnevo gypsiferous region.
Godishnik Min geol inst 7:9-21 '60/'61 [publ. '62].

L 00161-66

ACCESSION NR: AP5025552

BU/0011/65/018/002/0129/0132

Q
B

AUTHOR: Kostov, B.

TITLE: Mineral-formation in the CaO-Al₂O₃-MgSO₄ system

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 2, 1965, 129-132

TOPIC TAGS: cement, combustion, mineral, sulfate, aluminum oxide, aluminate, calcium compound

ABSTRACT:

The problem represents a particular case encountered during the burning of Portland cement and similar raw material mixtures containing sulfate substances - natural admixtures in the initial raw materials or those introduced as mineralizers. At present, a comparatively complete study has been made only of the CaO-Al₂O₃-CaSO₄ system (e.g., F. Nobuo, Bull. Soc. Japan, 34, 1961, No 1; 64, 1962, 5). It has been demonstrated that the compound 3(CaO·Al₂O₃)·CaSO₄, which possesses binding properties and plays the role of a separate clinker constituent, is formed at temperatures that are relatively not so high (1100-1200°). Consequently, the author undertook a systematic study of mineral formation in the indicated system. The action of the sulfates of the metals belonging to the 2nd group of the periodic system

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ACCESSION NR: AP 5025552

and is formed regardless of the mixture's base. Other tests showed that when calcium-aluminate mixtures are burned in the presence of sulfates, a complex interaction occurs at relatively not so high temperatures (900-1200°), which corresponds to the reactions in the mixtures of solid substances. It is possible only in cases when the temperature of MoSO_4 dissociation is lower than that of CaSO_4 dissociation. Finally, when sulfated raw material mixtures are used, the $3(\text{CaO} \cdot \text{Al}_2\text{O}_3) \cdot \text{CaSO}_4$ compound, which has the properties of an independently binding substance, replaces $3\text{CaO} \cdot \text{Al}_2\text{O}_3$ in part or in toto. The summary technological and physico-mechanical properties of the burned products (and of the clinker and the cement, in particular) respectively change to a greater or lesser degree, depending on the quantity of $3(\text{CaO} \cdot \text{Al}_2\text{O}_3) \cdot \text{CaSO}_4$. was investigated since many of these (CaSO_4 , MgSO_4 , BaSO_4) are quite common in nature and might be of interest as potential raw material in the production of silicates. Experiments proved the existence of $3(\text{CaO} \cdot \text{Al}_2\text{O}_3) \cdot \text{CaSO}_4$ and its formation in the investigated system. It is the thermodynamically most resistant among all calcium aluminates typical of Portland cement clinker.

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L 00161-66

ACCESSION NR: AP5025552

ASSOCIATION: Chemico-Technological Institute, Darvenitsa, Sofia

SUBMITTED: 00

ENCL: 00

SUB CODE: IC, GC

NR REF SOV: 005

OTHER: 001

JPRS

Ka
Card 3/3

IVANOV, V.; MILENKOV, K.; TSOLOV, N.; ALEKSANDROVA, E.; TSANKOV, I.; MECHKUNOV, K.; KHAMAMDZHIEV, K.; BALABANOVA, V.; KOSTOV, D.; KIS'OVA, A.

Results of the treatment of epilepsy using E. I. Karmanova's method.
Suvrem. med., Sofia 9 no.7:49-56 1958.

1. Iz NIPI i Okruzhnite psichko-nevrologichni dispanseri vuv Vratsa,
Ruse, Khaskovo i Stara Zagora.

(EPILEPSY, ther.

sodium bromide with calcium chloride & adenoside (Bul))
(BROMIDES, ther. use

sodium bromide in epilepsy, with calcium chloride & adenoside
(Bul))

(ADONIS, ther. use,

epilepsy, with sodium bromide & calcium chloride (Bul))
(CHLORIDES, ther. use,

calcium chloride in epilepsy, with sodium bromide & adenoside
(Bul))

KOSTOV, D.

The 14th nationwide competition in radiotelegraphy. Radio
i televiziia 11 no.9:262 '62.

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825220015-6

KOSTOV, D.

Fifteenth Competition in Radiotelegraphy in Bulgaria. Radio i
televiziia 12 no.8:227-228 '63.

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825220015-6"

KOSTOV, D.

First nationwide multiple radio competition. Radio i televizia
12 no. 11: 328 '63.

KOSTOV, D.

Fourth national competition in fox hunting. Radio i televiziia 12
no.9:259-260 '63.

KOSTOV, D.

The 1963 National Short-Wave Championship. Radio i televiziia 12
no.9:263 '63.

1. Gl. sekretar na IV republ. kv sustezanie.

KOSTOV, D.

Field Day competition in Czechoslovakia. Radio i televiziia 12
no.5:132 '63.

KOSTOV, D. (IZIDA)

Results of the 1962 Short-Wave Championship. Radio i televiziia
12 no.1:3 '63.

KOSTOV, D.

For a more varied and a wider competitive sports activity.
Radio i televiziia 13 no. 2:34-35 '64.

KOSTOV, D. (Sofiya)

Accomplishments of Bulgarian radio amateurs. Radio no.9:17
S '64. (MIRA 17:12)

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825220015-6

KOSTOV, Emil, inzh.; VICHEVA, Neli, inzh.

Interaction between the electric power system and the overhead lines of an electrified railroad section. Elektroenergiia 15 no.11:13-15 N '64.

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825220015-6"

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825220015-6

KOSTOV, Georgi

Correlation between labor productivity and labor wages.
Trud tseni 4 no.1:20-31 '62.

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825220015-6"

KOSTOV, Georgi, inzh., nauchen sutrudnik

The first bridge-canal of prestressed reinforced concrete in Bulgaria. Stroitelstvo 9 no.6:17-20 N-D

1. Nauchnoizsledovatelski institut po stroitelstvu.

KOSTOV, Georgi

Full use of the principle of personal material interest. Trud.
tseni 5 no.4:28-37 '63

1. Chlen na Redaktsionnata kolegiia, "Trud i tseni".

KOSTOV, Georgi

- Principle of personal material interest, and the development of
farming. Trud tseni 4 no.9:18-30 '62.

1. Chlen na Redaktsionnata kolegiia, "Trud i tseni".

L 40947-66

ACC NR: AP6030998

SOURCE CODE: BU/0015/66/027/001/0104/0109

17
8AUTHOR: Chunev, D.; Zagorchev, Iv.; Kostov, Il.

ORG: Scientific Research Geological Institute, GUGOZN (Nauchnoizsled. geol. institut pri GUCCZN)

TITLE: Pliocene of the Karlovo plain

SOURCE: Bulgarsko geologichesko druzhestvo. Spisanie, v. 27, no. 1, 1966, 104-109

TOPIC TAGS: geology, physical geology

ABSTRACT:

Drilling investigations seem to indicate that the Pliocene sediments of the Karlovo plain may be divided into two lithological horizons the lower of which contains mainly greyish-blue and greyish-green clays, and sandstones with coal and diatomite intercalations while the upper contains gravels composed of granite and gneiss fragments and light-grey to white clays and sandstones. The Sredna Gora anticline, along with the allochthons of the Balkan granite overthrust, has been the source of terrigenous material. The most intensive faulting and elevation of the Balkan block occurred after the Pliocene. The authors thank Iv. Vaptsarov for consultation on the geomorphological questions, and Zh. Trashlieva for carrying out the microscope research. Orig. art. has: 2 figures. [Based on authors' Eng. abst.] [JPRS: 36,844]

SUB CODE: 08 / SUBM DATE: 19May65 / ORIG REF: 010

Card 1/1 TC

1. A.

8

The iron deposits of the Shipta Mountain. Ivan Kostov
(Univ., Sofia, Bulgaria). *Annuario ann. Scienze Morali*
vol. Livre 3, 43, 1-37, English summary, 38-41 (1948-49).—
Iron ore deposits are mostly magnetite with some specular-
ite, intermixed with other minerals, contg. 25-65% Fe₂O₃.
Geology of the mountain and phys. features of the deposits
are described and their origin is discussed. O. M.

KOSTOV, IVAN

Kostov, Ivan Mineralogia; spetsialna chast. (Sofiya) Nauka i izkustvo (1949) 418 p.
(Universitetska literatura) (Mineralogy; special part. Illus., maps, index)

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, L. C., VOL. 3, NO. 1, Jan. 1954, Uncl.

KOSTOV, I.

"Geochemistry of Sulfur", P. 39, (MINNO DELO), Vol. 9, No. 1, Jan. 1954,
Sofiya, Bulgaria)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No.1,
Jan. 1955, Uncl.

Kostov, Ivelin

Rational classification of the minerals [Ivan Kostov
Univ. Sofia, Bulgaria; Zembla, 1974]

U.S.S.R. Obshchens. 63, 128-137, 1974. An interesting attempt of an improved mineralogical classification is made on a geochemical basis. The discussion starts from a comparison of the various systems, which are tabulated for comparison. A new rational classification in groups of (I) elements (including carbides, nitrides, phosphides), (II) sulfides, including sulfosalts and intermetallic compounds, (III) oxides, hydroxides, (IV) oxyanions (silicates, phosphates, arsenates, vanadates, molybdates, selenates, tellurites, wolframate), (V) carbonates, nitrates, borates, etc. The groups are now combined with the crystallochemical character of the coordination radicals. An arrangement with the ratios R_s/R_c and the ionic potential $\Phi = Z/R$ for the central cation is introduced in the single groups and subgroups. This geochemical principle of typical paragenetic assocons, of characteristic elements is significant for the new rational classification. Thus, in group II appear the assocons Pt-Pd-Ru; Mo-W, Sn; Zn-Cd-Cu; Ag-Pb-Hg-Au. In the oxide group III appear: Re-Al-Mg; Fe-Mn; Cu-Ag-Pb-Hg. The chlorides are grouped according to their structural types, among the halide structures appear minerals with the assocons Be-Al-Mg-Zr-Ti; Ca-Mn-rare earths; Zn-Cu-Pb-U, among the borates the assocons Be-Al-Mg, Mg-Ca-Na; among the phosphates the assocons Be-Al-Mg, Fe-Mn-Ca-rare earths; Zn-Cu-Pb-U; among the sulfates the assocons Al-Fe, Mg-Na-Ca-Cu-Pb-U; among the carbonates the assocons Na, Mg-Ca-Zn-Cu-Pb-U. The principle of assocons is set for the geochem. and paragenetic occurrence of the various groups of lithophilic, chalcophilic, and siderophilic combinations. Graphic diagrams are given which show the density and hardness data of oxide, silicate, and phosphate minerals grouped in "assoc. fields" which are very distinct and characteristic.

W. L. G.

KOSTOV, Ivan.

Classification of oxides. Min.sbor. no.10:105-131 '56.
(MLBA 9:12)

1. Kafedra mineralogii Sofiyskogo universiteta.
(Oxides)

KOSTOV, EVAN

The cordierite pseudomorphs. Ivan Kostov *Bessey-
esk Sofistskaya Unes., Biol. Geol. Sibiry*, Vol. 1, No. 1,
Geol. 49, p. 18 (1964). *Min. Publ. 1050*. *Minerals* I
were found in the Rukhodne M. mountain. Some of them were
converted almost entirely into white mica, the presumably
dolomite. This I is contained in a pegmatitic III which
which also contains orthoclase, quartz, feldspar, and
occasionally biotite, tourmaline, and/or magnetite and
ilmenite. The III was present due to the action of
soils upon the original rock which caused the substitution of Al, Mg, Fe, and the alkalies, as well as the
analyzes. The I crystals are up to 4 cm in size, short prismatic
in habit. They are interpenetrating twins with
twinning at (110); generally present are (010), (130)¹ and
(001). Chem. analyses are presented both for I and II.
On the surface, the I is rusty brown, indicating its trans-
formation into limonite. This is an action of weathering,
whereas the formation of the pseudomorphs must be con-
sidered as the result of a hydrothermal reaction. The older
literature contained 16 names for pseudomorphs of I. K
cuts the no. of true pseudomorphs of I down to 3, namely
those produced by chloritization (contg. chlorites IV),
those produced by muscovitization (contg. muscovite II),
and those produced by pyritization. This last group may
be considered as an intermediate of the 2 other groups. As
private is nothing but a mixt. of muscovite II and IV. —
Werner Jacobson

KOSTOV, I.

Andalusite in pegmatite from Ardino in the central Rhodope Mountains. p. 1.
GODISHNIK, Sofiya, Vol. 48, no. 2, 1952/53-1953/54.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955, Uncl.

KOSTOV, I.

Dimitrov, Ts. Origin of manganese ore deposits in the Sredna Gora region. p. 23
GODISHNIK, Sofiya, Vol. 48, no. 2, 1952/53-1953/54.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

KOSTOV, I.

SCIENCE

Periodical: GODISHNIK Vol. 50, no. 2, 1955/56 (published 1957).

KOSTOV, I. Concerning the polymorphism of Al_2SiO_5 . p. 115.

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 2
February 1959; Unclass.

15-57-5-6234

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 5,
p 76 (USSR)

AUTHOR: Kostov, Ivan

TITLE: The Problem of Classifying the Oxides (K voprosu o
klassifikatsii okislov)

PERIODICAL: Mineralog. sb. L'vovsk. geol. o-va pri un-te, 1956,
Nr 10, pp 105-131.

ABSTRACT: The author has proposed a systematization of the mineral
oxides in agreement with the principles of classifi-
cation advocated by him (RZhGeo, 1955, 11249). He
comments on the classifications of oxides adopted by
Palache, Berman, and Frondel, and by A. G. Betekhtin
Palache, Berman, Frondel, Dana's System of Mineralogy,
1946, 1; Betekhtin, A. G. Mineralogiya (Mineralogy)
1950, Voprosy mineralogii, geokhimi i petrografii,
Izd-vo AN SSSR (Questions on Mineralogy, Geochemistry,
and Petrography, Academy of Sciences USSR Press), 1946],
in which there is no consideration of the relationship

Card 1/4

15-57-5-6234

The Problem of Classifying the Oxides (Cont.)

between properties of the minerals and their paragenesis. In classi-
fying minerals, the author considers not only the crystal order, but
also the geochemical and mineral-paragenetic nature. In each class
of minerals he proposes a comparison of the principal physical
properties with the chemical composition, and the fundamental
division is made by distinguishing associations of metals that
characterize the chief cations in the respective minerals. The
relations between specific gravity and hardness of the mineral oxides
are shown on a diagram for four associations: Be-Al-Mg association,
Fe-Mn association, Ti-Nb(Ta) association, and Cu-Pb-U association.
The relationship between specific gravity and average refractive
index is considered in reference to these four associations. The
author recognizes the advisability of separating the anhydrous oxides
from those oxides containing hydroxyl. Therefore the oxides and
hydroxides are in all cases considered in a single group (called G
below). In each of the associations, a G is distinguished by uniform
or related crystalline types, similar in composition and paragenesis.
In the Be-Al-Mg association, G's are distinguished for chrysoberyl,
spinel, corundum, and periclaste. The mutual relations of the spinel

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15-57-5-6234

The Problem of Classifying the Oxides (Cont.)

tinguished. It contains G's of arsenolite-senarmontite, bistromite
(?), bindheimite, and selenolite (?).

Card 4/4

E. M. K.

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CIA-RDP86-00513R000825220015-6

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